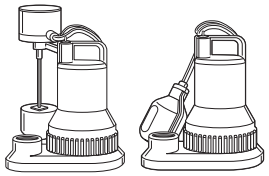
Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

WAYNE® Submersible Sump Pump



Description

The submersible pump is designed for home sump applications. The unit is equipped with an 8-ft long, 3-prong grounding type power cord. Motor is oil filled and sealed for cooler running and designed to operate under water. A float switch is provided for automatic pump operation. This pump is not suitable for aquatic life.

General Safety Information

⚠DANGER

Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in a flammable and/or explosive atmosphere. Pump should only be used to pump clear water. Personal injury and/or property damage could result.

NOTICE ***This pump is not designed to handle salt water, brine, laundry discharge or any other application which may contain caustic chemicals and/or foreign materials. Pump damage could occur if used in these applications and will void warranty.***

⚠DANGER ***All wiring must be performed by a qualified electrician. <u>Failure to follow this warning could result in fatal electrical shock</u>.***

⚠DANGER

If the basement has water or moisture on the floor, do not walk on wet area until all power is turned off. If the shutoff box is in the basement, call an electrician. Remove pump and either repair or replace. <u>Failure to follow this warning could result in fatal electrical shock</u>.

NOTICE ***A backup system should be used. Wayne offers Model ESP15.***

Assembly

VERTICAL FLOAT SWITCH (FLOAT ONLY)

Place the float bracket onto the handle of the motor housing and slide the switch assembly securely into place.

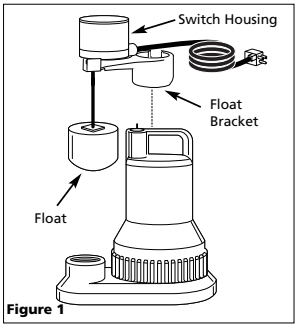


Figure 1

Installation

1. Install pump in a sump pit with minimum size as shown in Figure 2. Construct sump pit of tile, concrete, steel or plastic.
2. The unit should be located and rest on a solid, level foundation. Do not place pump directly on clay, earth, gravel or sandy surface. These surfaces contain small stones, gravel, sand, etc. that may clog or damage the pump and cause pump failure.

⚠WARNING ***Flood risk. If flexible discharge hose is used, make sure pump is secured in sump pit to prevent movement. Failure to secure pump could allow pump movement and switch interference and prevent pump from starting or stopping.***

3. Thread check valve (Wayne offers Model 66005-WYN) into pump body carefully to avoid stripping or cross threading. Do not use pipe joint sealant.
4. Connect 1-1/2" rigid pipe to rubber boot on check valve. Reverse boot for 1-1/4" diameter pipe. Tighten hose clamps.

⚠WARNING ***Support pump and piping when assembling and after installation. Failure to do so could cause piping to break, pump to fail, etc. which could result in property damage and/or personal injury.***

5. Protect electrical cord from sharp object, hot surfaces, oil and chemicals. Avoid kinking the cord and replace damaged cords immediately.

IMPORTANT: Make sure there is adequate room for the switch to operate.

6. A sump pit cover must be installed to prevent debris from clogging or damaging the pump.

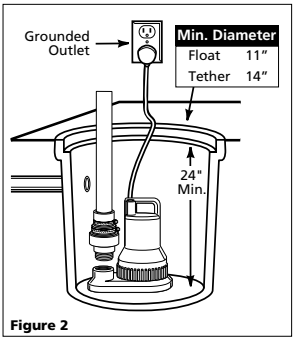


Figure 2

Operation

⚠DANGER

Always disconnect the power source before attempting to install, service, relocate or maintain the pump. Never touch sump pump, pump motor, water or discharge piping when pump is connected to electrical power. Never handle a pump or pump motor with wet hands or when standing on wet or damp surface or in water. <u>Fatal electrical shock could occur</u>.

1. A ground fault circuit interrupter (GFCI) is required.

⚠DANGER ***Risk of electrical shock! This pump is supplied with a grounding conductor and grounding type attachment plug. Use a grounded receptacle to reduce the risk of fatal electrical shock.***

Never cut off the round grounding prong.

REMINDER: Keep your dated proof of purchase for warranty purposes! Attach it to this manual or file it for safekeeping.

© 2002 Wayne Water Systems

Operation (Continued)

Cutting the cord or plug will void the warranty and make the pump inoperable.

2. This pump is only for use on 120 Volt (single-phase), 60 hz, 15 amp service and is equipped with a 3-conductor cord and 3-prong, grounding type plug. Insert the float switch cord plug directly into a 120 volt outlet.
3. Insert the pump power cord plug directly into the back of the float switch cord plug (See Fig. 3).

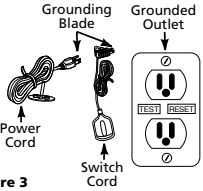


Figure 3

4. Fill sump with water. The pump will start automatically when the water has filled the sump to the cut-in level. The pump will stop when the water reaches the cut-out level. See specifications for cut-in/out levels. The pump will recycle thereafter as required.
5. Do not operate the pump unless it is submerged in water. Dry running causes pump failure.
6. The motor is equipped with an automatic reset thermal protector.
7. While the pump is draining the pit, verify that the discharge piping is carrying the water to a point several feet away from the foundation.
8. If pump discharge line is exposed to freezing temperature, the exposed line must be pitched to drain. Trapped water will freeze and damage the pump.

Maintenance

⚠DANGER

Always disconnect the electrical supply before attempting to install, service, relocate or perform any maintenance. If the power source is out of sight, lock and tag in the open (off) position to prevent unexpected power application. Failure to do so could result in fatal electrical shock. Only qualified electricians should repair this unit. Improper repair could result in fatal electrical shock.

1. Let the pump cool for a minimum of two hours before servicing because the pump contains hot oil under pressure and the motor is hot.
2. Disassembly of the motor prior to expiration of warranty will void the warranty. If repairs are required, see troubleshooting chart.
4. Inlet should be kept clean and free of all foreign objects and inspect annually. A clogged inlet will damage pump.
5. Pump should be checked monthly for proper operation.

⚠WARNING ***This pump contains dielectric oil for cooling. This oil can be harmful to the environment. Check the state environmental laws before disposing this oil.***

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Pump will not start or run	1. Blown fuse 2. Low line voltage 3. Defective motor 4. Defective float switch 5. Impeller bound-up 6. Float obstructed	1. If blown, replace with proper sized fuse or reset breaker 2. If voltage is under 108 volts, check wiring size 3. Replace pump 4. Replace float switch 5. If impeller will not turn, remove housing and remove blockage 6. Make sure float move freely up and down
Pump starts and stops too often	1. Backflow of water from piping 2. Faulty float switch	1. Install or replace check valve (Wayne check valve kit #66005-WYN) 2. Replace float switch
Pump will not shut off or thermal protector turns off	1. Defective float switch 2. Obstacle in piping 3. Float obstructed	1. Replace float switch 2. Remove pump and clean pump and piping 3. Make sure float move freely up and down
Pump operates but delivers little or no water	1. Low line voltage 2. Plugged impeller	1. If voltage is under 108 volts, check wiring size 2. Clean out impeller

Specifications	
Power supply requirements	120V, 60 hz
Motor	Single phase, oil filled
Liquid temperature range	40°F to 120°F
Circuit requirements	15 amps (min)
Dimensions	11″ high x 9″ base
Cut-in level (factory set)	Tether ...14″ Float .....7″
Cut-out level (factory set)	Tether ...7″ Float .....2 1/2″

Construction	
Motor housing	Glass reinforced thermoplastic
Volute	Thermoplastic
Impeller	Glass reinforced thermoplastic
Shaft	416 Stainless steel
Seals	Buna N
Discharge	1½″ NPT

www.waynepumps.com

Limited Warranty

For one year from the date of purchase, Wayne Home Equipment Division ("Wayne") will repair or replace, at its option, for the original purchaser any part or parts of its Sump Pumps or Water Pumps ("Product") found upon examination by Wayne to be defective in materials or workmanship. Please call Wayne (800-237-0987) for instructions or see your dealer. Be prepared to provide the model number and the serial number when exercising this warranty. All transportation charges on Products or parts submitted for repair or replacement must be paid by purchaser.

This Limited Warranty does not cover Products which have been damaged as a result of accident, abuse, misuse, neglect, improper installation, improper maintenance, or failure to operate in accordance with Wayne's written instructions.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations might not apply to you. This limited warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state.

In no event, whether as a result of breach of contract warranty, tort (including negligence) or otherwise, shall Wayne or its suppliers be liable for any special, consequential, incidental or penal damages including, but not limited to loss of profit or revenues, loss of use of the products or any associated equipment, damage to associated equipment, cost of capital, cost of substitute products, facilities, services or replacement power, downtime costs, or claims of buyer's customers for such damages.

You **MUST** retain your purchase receipt along with this form. In the event you need to exercise a warranty claim, you **MUST** send a **copy** of the purchase receipt along with the material or correspondence. Please call Wayne (800-237-0987) for return authorization and instructions.

DO NOT MAIL THIS FORM TO WAYNE. Use this form only to maintain your records.

MODEL NO._____ SERIAL NO._____ INSTALLATION DATE_____

ATTACH YOUR RECEIPT HERE

Replacement Parts List
Liste de Pièces de Rechange
Lista de repuestos

- Only use factory parts to repair this pump.
- Utiliser seulement les pièces de l'usine pour la réparation de cette pompe.
- Use sólo repuestos legítimos para reparar esta bomba.

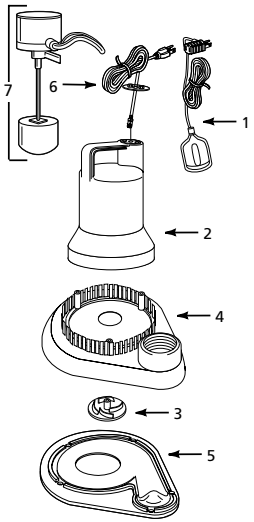
For Replacement Parts, call 1-800-237-0987
Pour Les Pièces de Rechange, appeler 1-800-237-0987
Para ordenar repuestos, comuníquese con el distribuidor más cercano a su domicilio.

Please provide following information:
- Model number
- Serial number (if any)
- Part descriptions and number as shown in parts list

S'il vous plaît fournir l'information suivante:
- Numéro du Modèle
- Numéro de Série (si présent)
- Description et numéro de la pièce

Sírvase darnos la siguiente información:
- Número del modelo
- Número de serie (de haberlo)
- Descripción y número del repuesto según la lista

Address parts correspondence to:
Correspondance:
Puede escribirnos a:
Wayne Home Equipment
100 Production Drive
Harrison, OH 45030 U.S.A.



Ref. No.	Description	Part Numbers for Models W25T/F	WST/F30	W33T/F	WST/F40	W50T	WSF50
1	Tether Float Switch Kit (WST)	60022-001	60022-001	60022-001	60022-001	60022-001	—
2	Motor Assy Kit	60046-001	60047-001	60048-001	60049-001	60049-002	60049-002
3	Impeller Kit	66010-001	66011-001	66012-001	66013-001	66013-002	66013-001
4	Volute	28416-001	28416-001	28416-001	28416-001	28416-001	28416-001
5	Base	28418-001	28418-001	28418-001	28418-001	28418-001	28418-001
6	Power Cord Kit	62003-001	62003-001	62003-001	62003-001	62003-001	62003-001
7	Vertical Float Switch Kit (WSF)	60051-001	60051-001	60051-001	60051-001	—	60051-001

N° de Réf.	Description	Numéros de Pièces pour Modèles W25T/F	WST/F30	W33T/F	WST/F40	W50T	WSF50
1	Jeu d'Interrupteur Flotteur (WST)	66014-001	60022-001	66014-001	60022-001	66014-001	—
2	Jeu d'assem. de moteur	60046-001	60047-001	60048-001	60049-001	60049-002	60049-002
3	Jeu de turbine	66010-001	66011-001	66012-001	66013-001	66013-002	66013-001
4	Volute	28416-001	28416-001	28416-001	28416-001	28416-001	28416-001
5	Base	28418-001	28418-001	28418-001	28418-001	28418-001	28418-001
6	Jeu de cordon d'alimentation	62003-001	62003-001	62003-001	62003-001	62003-001	62003-001
7	Jeu d'Interrupteur À Flotteur (WSF)	60051-001	60051-001	60051-001	60051-001	—	60051-001

No. de Ref.	Descripción	Número de Piezas para los Modelos W25T/F	WST/F30	W33T/F	WST/F40	W50T	WSF50
1	Flotante/interruptor (WST)	66014-001	60022-001	66014-001	60022-001	66014-001	—
2	Motor	60046-001	60047-001	60048-001	60049-001	60049-002	60049-002
3	Impulsor (propela)	66010-001	66011-001	66012-001	66013-001	66013-002	66013-001
4	Voluta	28416-001	28416-001	28416-001	28416-001	28416-001	28416-001
5	Base	28418-001	28418-001	28418-001	28418-001	28418-001	28418-001
6	Cordón eléctrico	62003-001	62003-001	62003-001	62003-001	62003-001	62003-001
7	Juego de interruptor/ flotante vertical (WSF)	60051-001	60051-001	60051-001	60051-001	—	60051-001